

4/19/2018

Print



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	T
PO039520	MES002-VC	1	1	Net 30	M4130NR0.375	4130 Steel Round Bar .375" MATERIAL: AISI 4130N ROUND BAR AS PER MIL-S-6758 OR AMS 6348/6370/6528 receive ft				24	4/17/2018	24		S062939	Stock	4/19/2018	\$ 26.70 / ft	0		\$
Total:										24		24								\$5

Plex 4/19/2018 1:15 PM Dart.Dubois.Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039520**

Supplier: MES002-VC
Metaux Solutions
2625 boul Jacques-Cartier Est
Longueuil
QC
J4N 1L7 Canada
Phone: 800 558 8858
Fax: 514 633 8044

PO No: PO039520

PO Date: 4/6/18

Due Date: 4/17/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

REVISED

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: bid 26737

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M4130NR0.375		4130 Steel Round Bar .375" : MATERIAL: AISI 4130N ROUND BAR AS PER MIL-S-6758 OR AMS 6348/6370/6528 receive ft	Firmed	4/17/18	24 ft	0 ft	24 ft	\$26.70/ft	\$640.80

24'

DAS
11
9-89

APR 19 2018

Line Item Note bar cut in half

Grand Total: \$640.80

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

CL

Plex 4/10/18 8:20 AM dart.lavoie.chantal

10 LBS

METAUX SOLUTIONS INC
2525 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7
TEL: 450 641-3330

Shipping Order

13/04/2018

Order : 134162
Reference : 39520
Bid : 26737
Ship : PICK UP / PICK UP

Customer : 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
MR384130	4130N .375 DIAM 2 bars cut in half ht:186921	24	24	Ø
	SHIP FEDEX COLLECT #151793240 JP			

Shipping : _____

Ref. : _____

Package No : _____

Merchandise Received: _____

10155

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7

Tel.: 450 641-3330

Shipping Order 13/04/2018

Order : 134162
Reference : 39520
Bid : 26737
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Deliver	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
MR384130	4130N .375 DIAM	24	<u>24</u>	<u>Ø</u>
	2 bars cut in half			
	ht: 186921			
	SHIP FEDEX COLLECT #151793240			
	JP			

Shipping : _____ Ref. : _____
Package No : _____
Merchandise Received: _____

Ssidenor

Vitoria Plant

MILL TEST CERTIFICATE

ISO 9001; ISO-TS 16949; ISO 14001 Y OHSAS 18001



Product Made in Spain

CUSTOMER: MAGELLAN CORPORATION		WORKS REFERENCE: 1862035
REFERENCE: 210894	SALES ORDER: 294537-1	HEAT NUMBER: 186921
PRODUCT NR:	MASTER REFERENCE: 221827	ROLLED: 23.06.2016

REQUIRED PRODUCT
 AISI 4130 ROUND BARS COLD DRAWN NORMALIZING 0.3750" SPECIFICATION'S TOLERANCE 12'/12'2"
 NORMAL

EXPEDITION DELIVERY: 0080556260 WEIGHT (KG): 4.403 BUNDLES: 3 UNITS: 2 130

MADE ACCORDING TO

ASTM A108 - 15 08 2013 ; SAE-AMS 2301 K 08.2010 ; SAE AMS 6348 D 10 2013
 SAE AMS 6370 N .05.2011 ; AISI BAR STEEL - .09 1996 , ASTM A304 2011 01.10 2011
 ASTM A322 2013 . . 2013 ; ASTM A751 2014 01 03 2014 . SAE-AMS S6758 A SEPT 2003
 ASTM A331 95(R2000) . . 2000 , ASTM A29-A29M 2015 01 11 2015
 MAGELLAN MIC2016 1 30.01.2012 , MIL S6758B-NOT2 23/06/95 - 23.06.1995
 EN 10204 .2004 OCT. 2004 3 1

CHEMICAL ANALYSIS OF HEAT U: % HEAT NUMBER: 186921

	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Al
Min	0,280	0,400	0,150			0,800		0,150		
Max.	0,330	0,600	0,300	0,025	0,025	1,100	0,250	0,250	0,350	
cer.	0,290	0,460	0,250	0,014	0,003	0,850	0,220	0,164	0,210	0,003

D.I. ASTMA255 (") 2,311

JOMINY HARDENABILITY HARDNESS U: HRC QUENCHING TEMP.: 1.600 °P

	1/16"	2/16"	3/16"	4/16"	5/16"	6/16"	7/16"	8/16"	9/16"	10/16"	11/16"
Min.	49,0	46,0	42,0	38,0	34,0	31,0	29,0	27,0	26,0	26,0	25,0
Max.	56,0	55,0	53,0	51,0	49,0	47,0	44,0	42,0	40,0	38,0	36,0
cer.	50,5	49,5	49,0	46,0	43,0	40,5	36,0	33,0	31,5	31,0	30,0

	12/16"	13/16"	14/16"	15/16"	16/16"	18/16"	20/16"	22/16"	24/16"	26/16"	28/16"
Min.	25,0	24,0	24,0	23,0	23,0	22,0	21,0	20,0			
Max.	35,0	34,0	34,0	33,0	33,0	32,0	32,0	32,0	31,0	31,0	30,0
cer.	29,0	28,5	28,0	27,0	26,5	26,0	25,5	25,0	24,5	24,0	24,0

	30/16"	32/16"
Min.		
Max.	30,0	29,0
cer.	23,5	23,0

JOMINY Standard (ASTM A255 - 2010)

INCLUSIONS (MICROINCLUSIONS)
 Standard (ASTM E45 2013) . . . 2013) , Type/method (A) , A(t):0,5 , A(h):0 ; B(t):1 , B(h):0 ; C(t):0
 C(h):0 ; D(t):0,5 ; D(h):0

INCLUSIONS (MACROINCLUSIONS)
 Standard (SAE-AMS 2301 K 08.2010) , Severity(1):Promedio 0 , Severity(2):Individual 0
 Frequency(1):Promedio 0 ; Frequency(2):Individual 0

MECHANICAL PROPERTIES AS SUPPLIED (TEST)

Hardness Standard (ASTM E10 2015 01.05 2015) ; Hardness (<= 241 HB): 227 HB
 Core hardness (HB): 229 HB

ADDITIONAL TESTS

Standard (ASTM E184 - 1999) ; decarburization: 0,1 mm ; Standard (ASTM E112 2013 01.10 2013)

TECHNOLOGY & QUALITY CERTIFIES THAT THE PRODUCT FULL FILLS THE ORDER'S SPECIFICATION

APPROVED BY: IGNACIO URBETA LAVIADA. SIGN:

DATE: 24.10 2016 Page 1 of 2

REF.: 4001508410010 Analyst of Quality certificates

Sidenor

MILL TEST CERTIFICATE

Vitoria Plant

ISO 9001; ISO-TS 16949; ISO 14001 Y OHSAS 18001



Product Made in Spain

CUSTOMER: MAGELLAN CORPORATION	WORKS REFERENCE: 1882035
REFERENCE: 210894	HEAT NUMBER: 186921
PRODUCT NR:	ROLLED: 23.06.2016
SALES ORDER: 294537-1	MASTER REFERENCE: 221827

Grain size: Austenitic 7 ; Standard (ASTM E381 2001 R2006) ; macroetching(1): S 1
macroetching(2): R 1 ; macroetching(3): C 1 ; Radiactivity: <= 0,2 µSV/H

NON DESTRUCTIVE TESTS


Surface defects standard (ASTM E709 2014 01.03.2014) ; Cracks control 100%: O.K.
Absence internal defects guaranteed by process

ADDITIONAL INFORMATION

Reduction ratio: 305,9 ; Material is free from any harmful magnetism
Melting Process: Electric Furnace and Vacuum Degassed; Continuous Casting 155 x 155 mm.
Product Made in Spain , Steel melted in Spain ; Material according to AMS/ MIL 8-6758 COND. D4
Material is free of mercury and radioactivity contamination ; No weld repair performed
Furnace calibration O.K. ; Steel is free from harmful radioactive contamination

Material melted and manufactured 100% in Spain through the Electric Arc Furnace and Vacuum Degassing route
Steel not exposed to Mercury, or to any other metal alloy that is liquid, at ambient temperatures during processing or while in Sidenor's possession
Steel is free from Uranium or any other harmful radioactive contamination
Steel products were not repaired by welding

TECHNOLOGY & QUALITY CERTIFIES THAT THE PRODUCT FULL FILLS THE ORDER'S SPECIFICATIONS

APPROVED BY: IGNACIO URBIETA LAVIADA	SIGN: 
DATE: 24.10.2016	Analyst of Quality certificates
REF: 4001508410020	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130 NRO-375
 DATE: APR 19 2018

PO / BATCH NO.: 039520/5062939

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.375
 THICKNESS RECEIVED: 0.375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AMS 6348
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # 186821
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 APR 19 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>UP</i>	APPROVED <i>[Signature]</i>	DRAWING NO. M4130N-R	REV. A SHEET 1 OF 1
DATE 02.04.19		TITLE 4130 ROUND BAR	SCALE NTS
A	02.04.19	NEW ISSUE	

PURCHASE MATERIAL:

AISI 4130N ROUND BAR
PER MIL-S-6758 OR AMS 6348/6370/6528 *CM*

PART NUMBER:

M4130N-R D.DDD | WHERE D.DDD = DIAMETER IN INCHES

DIA

EG. 7/8" ROUND BAR = M4130N-RD.875

RELEASED
02.05.06 *[Signature]*

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